

PAT-NO: JP402275078A

DOCUMENT-IDENTIFIER: JP 02275078 A

TITLE: CONTROLLER FOR HYDRAULIC CIRCUIT

PUBN-DATE: November 9, 1990

INVENTOR-INFORMATION:

NAME
OCHIAI, MASAMI
KATO, HIDEYO

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI CONSTR MACH CO LTD	N/A

APPL-NO: JP01095249

APPL-DATE: April 17, 1989

INT-CL (IPC): F04B049/00, F04B001/26

US-CL-CURRENT: 417/216, 417/222.1

ABSTRACT:

PURPOSE: To dispense with a special pump tilting value detecting means by reading a pump tilting value from a storage means on the basis of the detected value of operating force corresponding to the pump tilting value in a variable displacement hydraulic pump, in the title controller installed in a hydraulic machine for construction equipment or the like.

CONSTITUTION: A swash type piston pump motor fits each piston 11 in plural

cylinders 10 formed in a cylinder block 8 being rotated by a turning shaft 2, and it has a tip part 11A of each piston 11 supported on a shoe 12 being slidingly contacted with a swash plate 13 which is controlled of its tilting value by operation of a tilting actuator 20 via an operating rod 18. In this case, there are provided pressure sensors 42, 43 which detect pressure in symmetrical pressure chambers 21a, 21b of the tilting actuator 20, and each output signal of these sensors is inputted into a controller 39. Then, from operating force corresponding to the detected pressure, a pump tilting angle in a functional relation with this operating force is read out of a storage means, utilizing it for hydraulic control.

COPYRIGHT: (C)1990,JPO&Japio

